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Award Number: W81XWH-09-1-0722

TITLE: SPCR2 High Risk Suicidal Behavior in Veterans- Assessment of Predictors and Efficacy of Dialectical Behavioral Therapy

PRINCIPAL INVESTIGATOR: Marianne Goodman M.D.

CONTRACTING ORGANIZATION: Bronx Veterans Medical Research Foundation Inc. Bronx, New York 10468

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first project is a randomized clinic Dialectical Behavioral Therapy (I second aim of the project is to exat low risk (LR) in a variety of synthat may advise future treatment baseline assessments were composed the six-month treatment the treatment trial as we aim for Our supplemental project on affer	udying high-risk suicidal veral trial of 120 veterans in DBT) vs. treatment as us camine group differences optom domains. The goal. Over the 41 months sin pleted. 90 high-risk suicitent trial. A no-cost extens 100 subjects total. We wastive startle is meeting rething for thus far, the supplement	veteran populations. dentified with high-riual (TAU) on suicida between 150 veteral of this will be to id ce study approval, 3 dal subjects have be ion for year 5 of the ill easily meet recruitment goals and thas assessed 149	This project p isk suicidal behal behavior as a ans at high risk entify symptom 322 subjects ha een randomize trial will allow tment goals of d we hope to b subjects at ba	roposes two related studies. The navior comparing the efficacy of a primary outcome measure. A (HR) for suicide and 150 veterans associated with suicidal behavior
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Introduction:

Approximately one third of the Army's completed suicides last year occurred in the post-deployment period (Alvarez 2009) highlighting the importance of studying high-risk suicidal veteran populations. This project proposes two related studies. The first project is a randomized clinical trial of 120 veterans identified with high-risk suicidal behavior comparing the efficacy of Dialectical Behavioral Therapy (DBT) vs. treatment as usual (TAU) on suicidal behavior as a primary outcome measure. A second aim of the project is to examine group differences between 150 veterans at high risk for suicide and 150 veterans at low risk in a variety of symptom domains. The goal of this will be to identify symptoms associated with suicidal behavior that may advise future treatment.

We will assess symptom domains including mood and substance use in our veteran population by comparing symptoms in low vs. high risk veterans recently discharged from the James J Peters VAMC (JJPVA) psychiatric inpatient unit. In addition, we will explore indices of interpersonal function and measure features that have some evidence of offering protection from suicide, which could be viewed as resilience factors. A particular emphasis of the present project is to characterize the nature of the interpersonal dysfunction in high risk individuals, as there exists very good evidence that social isolation, or a lack of a sense of "belonging" puts people at particularly high risk for suicide, in particular in a military sample. We intend to assess the impact of DBT vs. TAU on these symptom domains in addition to their impact on suicidal behavior.

Body:

In October 2011, a supplement to this project was approved to add a physiological measure, affective startle to the baseline assessment and post- DBT treatment.

Aim 1 relates to a randomized clinical trial of Dialectical Behavior Therapy (DBT) vs. treatment as usual (TAU) in 120 veterans recently hospitalized with high-risk suicidal behavior. This will be accomplished under the leadership of Dr. Marianne Goodman, James J. Peters VAMC, Bronx, NY 10468

Aim 1: To examine, in a randomized controlled trial (RCT), the efficacy of a 6 month treatment with standard DBT (weekly individual sessions, skills training group and telephone coaching as needed) as compared to TAU in 120 veterans recently discharged from an acute psychiatric inpatient stay with high risk suicidal behavior. The primary treatment outcome will be a quantification of suicidal events, as assessed by the Columbia Suicide Severity Rating Scale, which measures suicide attempts, plans and preparations. Our study will be powered to examine treatment assignment differences in this measure. Secondary outcomes will include suicidal ideation, parasuicidal events, treatment compliance, depressed mood, substance abuse and hopelessness.

This aims involves recruiting 120 veterans off the JJPVA "high-risk" suicide list; a designation made primarily after psychiatric inpatient admission for serious suicidal behavioral. High-risk

(HR) suicide subjects will undergo a comprehensive diagnostic interview prior to entering the treatment study. Subjects will receive 6 months of TAU vs. DBT but both groups will continue to receive standard psychopharmacology and case management services from their clinic providers. Subjects will receive a battery of assessments at month 6, 12 and 18.

Aim 2 relates to a comparison of high-risk and low-risk suicidal veterans in interpersonal functioning and resilience, in an effort to identify intermediate symptoms that are closely associated with HR suicidal behavior. This will be accomplished under the leadership of Dr. Marianne Goodman, James J. Peters VAMC, Bronx NY 10468

Aim 2: To recruit veterans recently discharged from an acute psychiatric inpatient stay comparing 150 veterans with HR suicidal behavior to 150 veterans without such behavior (LR) in symptom domains focusing on interpersonal functioning and resiliency.

Aim 3 is exploratory and examines the effect of treatment (DBT or TAU) on the putative intermediate symptom domains associated with HR suicidal behavior of interpersonal functioning and resiliency. This will be accomplished under the leadership of Dr. Marianne Goodman James J. Peters VAMC, Bronx NY 10468

Aim 3: To explore the effect of DBT on the candidate intermediate symptoms of interpersonal functioning and resiliency associated with HR suicidal behavior.

Promised work:

Parent Project-

The first 3 months is devoted to training the raters on our assessment and diagnostic battery while we await regulatory approvals. During months 3-6, we expect to perform thirty baseline assessments and 15 high-risk subjects will be randomized to treatment. During months 6-12, 12-18, 18-24, 24-30, we expect that thirty high-risk and thirty low-risk suicidal subjects will receive baseline assessments during each 6 month block. We anticipate that 25 of the high-risk subjects will proceed into treatment during each one of the time blocks. Months 30-36 will target 30 total additional assessments for baseline high and low-risk subjects with 5 of the HR individuals being randomized for treatment. The baseline assessment is a more comprehensive evaluation and we estimate that it will take approximately 6-7 hours with follow-up assessments requiring 1-2 hours.

While we met recruitment goals for Aim 1 of the study, our recruitment for the RTC fell behind. In order to continue recruitment we requested and were granted a fifth year, no cost extension. The Table below reflects promised work, and new numbers with a 5th year added.

	Baseline assessments (50% HR, 50% LR)	Randomized to treatment (HR only)	Follow-u 6mo 18mo	up assessments 12 mo
Months 0-3				
Months 4-6	30	15		
Months 7- 12	60	25	12	
Months 13-	60	25	19	11

18			-		
Months 19- 24	60	25	19	17	10
Months 25- 30	60	25	19	17	15
Months 31- 36	30 –	5 –	19	17	15
Months 37- 48 (year 4)	New year 4 target- 60 Actual 65 293 to date (goal 300)	New year 4 target-25 Actual 15 90 to date (goal 120)	28	19	30
Months 49- 60 (year 5)	New year 5 target- 10 Recruitment just to meet RTC goals	New year 5 target-10 15	15	20	30

Progress to date Parent Study:

Towards accomplishing these aims, we received approval from our local IRB 7/9/09 and local Research and Development approval on 7/15/2009; prior to official funding of the project. This allowed us to *pilot* the intervention, assessments and randomization procedure. Dept of Defense approval was obtained on 4/27/2010; almost four months later that we had projected in our initial statement of work.

Recruitment for year #4

The study's recruitment has continued to be steady with **59** high risk (HR) subjects and **15** low-risk (LR) subjects signing consent between 9/29/12-9/30/13. Of the 59 HR consented subjects, 51 completed baseline assessments.15 LR subjects were consented over the past year and 15 of the 15 completed the baseline assessment. We are prioritizing HR recruitment in order to maximize flow through to the treatment trial.

For the treatment trial, **15** high-risk subjects were randomized during year 4. For the DBT arm: 21 subjects completed the 6 month trial, 20 have completed 12 month follow-up and 14 have completed the entire trial. For the TAU arm: there have been 23 patients who completed the 6-month trial and 21 completed 12 months. 16 have completed the entire trial.

These numbers are summarized below.

Overall recruitment since the study's inception includes:

203 high risk and **119** low risk consented with **190** completed high risk baseline assessments and **103** completed low risk baseline assessments. **90** subjects have been randomized in the treatment trial and **44** completed the 6-month treatment.

Summary of Year 4: 9/29/11-9/30/12 recruitment

High Risk	Low Risk
-----------	----------

# consented	59	15
# completed	51	15
# randomized	15	
#complete 6 month	13	
12 month f/up	11	
18 month f/up	6	

Summary of Entire Study to date

	High Risk	Low Risk
# consented	203	119
# completed	190	103
# randomized	90	
#complete 6 month	44	
12 month f/up	41	
18 month f/up	30	

Total: 293 of 300 completed baseline assessments 90 of 120 randomized to clinical trial

Progress Pertaining to Aim #1

Our Statement of work projected that by study completion we will have 300 baseline assessments finished. Currently we are at 293 and expect to achieve 300 by the end of this calendar year, easily completing this aim. Data analysis will proceed over year 5 along with manuscript generation. Interim analyses have yielded findings pertaining to the importance of Axis I diagnoses of substance abuse, Axis II diagnoses of borderline personality disorder and responses on the interpersonal psychological survey as important risk factors for identifying "high-risk" veterans (see **Figure 1**).

The identification of the interpersonal psychological survey as a critical instrument has led us to further examine its contents through a computerized implicit task assessment that we will be piloting in year 5 (see **Figure 2**).

What Predic						
diagnostic variable						
	В	S.E.	Wald	df	Sig.	Exp(B)
IPS score (Interpersonal psychological survey)	.215	.057	14.126	1	.000	1.239
SIDP, Borderline Personality Disorder, diagnosis	2.394	.631	14.407	1	.000	10.955
Constant	-4.066	.958	18.024	1	.000	.017

Figure 1- Predictors of Suicide Risk in Veterans

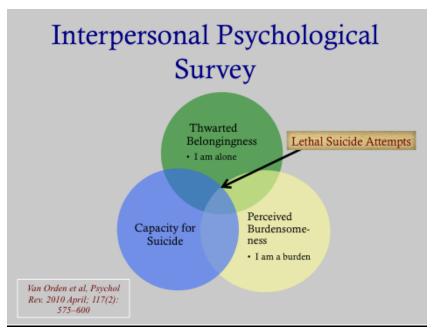


Figure 2- Interpersonal Psychological Survey components

Progress Pertaining to Aim #2

We have randomized 90 subjects to the treatment trial to date and are aiming to achieve 100 of the 120 promised. We continue to run subjects through the treatment trial and 1 year follow-up.

Progress Pertaining to Aim #3

This aim requires the completion of DBT treatment for multiple subjects and awaits year 5 of the study for adequate data to address. At present, all longitudinal data has been entered and we are planning on starting treatment trial data analysis fall-winter 2013.

Problems Accomplishing Tasks

With Hurricane Sandy this past year, the Manhattan VA hospital was closed for upwards of 5 months. This lead to disruptions of care at our facility, as Manhattan patients sought treatment temporarily at our hospital. This complicated RCT recruitment efforts as pts were less likely to enroll in a longitudinal study that would require changing the location of their outpatient care beyond the expected time of Manhattan VA's closure.

SUPPLEMENT:

In addition to our three aims for the parent study, we have two additional aims for the supplemental study:

<u>Supplement Aim 1</u> is to conduct a nonverbal and objective psychophysiological assessment of emotion processing using the affective startle paradigm to test whether it might serve as a potential biomarker for differentiating levels of suicidality. This will be

accomplished under the leadership of Drs. Marianne Goodman and Erin Hazlett, James J. Peters VAMC, Bronx NY 10468

Aim 1. To examine the magnitude, time course, and rate of habituation of the startle eyeblink response during unpleasant, neutral, and pleasant pictures in 150 veterans with varying levels of suicidality; 60 veterans with a recent suicide attempt (during past 3 months), 60 veterans with suicidal ideation but no history of attempts, and 30 healthy veteran controls (i.e. no current psychiatric diagnosis).

This aim will be accomplished by adding the affective startle modulation paradigm to our current assessment battery of high- and low-risk suicidal subjects. Eligible subjects enrolled in the DoD funded parent project will participate in a 1-hour psychophysiology session at the MIRECC psychophysiology laboratory where we will record our primary variable of interest, namely the affective startle eyeblink response at baseline and 6 months for those enrolled in the DoD treatment trial. During this session, participants will view an intermixed series of unpleasant, neutral, and pleasant pictures from a standardized picture set. For each of the 3 picture conditions, we will examine three measures related to affective startle eyeblink modulation which is our psychophysiological measure of emotion processing: (1) the *amplitude* of the startle eyeblink response; (2) the *time course* of emotion processing by presenting the startle probes at different times during and post-picture processing; and (3) the rate of *habituation* of the startle eyeblink response.

<u>Supplement Aim 2</u> is to compare startle variables across suicide groups (ideators, attempters) by presence or absence of borderline personality disorder to clarify if differences in affective startle modulation extend beyond personality disorder diagnosis. Thirty suicide attempters with BPD (SABPD+) will be compared with 30 suicide attempters without BPD (SABPD-) and 30 suicide ideators with BPD (SIBPD+) will be compared to 30 ideators without BPD (SIBPD-) across startle variables. This will be accomplished under the leadership of Drs. Marianne Goodman and Erin Hazlett, James J. Peters VAMC, Bronx NY 10468

Aim 2 investigates the relationship of Axis II diagnosis, suicidality and affective startle. The collected data for Aim 2 will be used to explore this question.

<u>Supplement Aim 3</u> is exploratory and will examine whether (a) magnitude, time course and/or rate of habituation to unpleasant, neutral and pleasant pictures predicts treatment response to six-month Dialectical Behavioral Therapy (DBT) for suicidal behavior; and (b) magnitude, time course and/or habituation of affective startle improves with 6 months of DBT in treatment responders compared with non-responders.

We plan to study 150 veterans with varying levels of suicidality; 60 veterans with a recent suicide attempt (during the past 3-months), 60 veterans with suicidal ideation but no history of attempts, and 30 healthy veteran controls (i.e. no current psychiatric diagnosis) with a measure of psychophysiology. This aim will be accomplished by adding the affective startle modulation to our current assessment battery of high- and low-risk suicidal subjects. Eligible subjects enrolled in the DoD funded parent project will participate in a 1-hour psychophysiology session at the MIRECC psychophysiology laboratory where we will record our primary variable of interest, namely the affective startle eyeblink response. We will be testing whether affective startle is a biomarker of suicide risk and examining the effect of treatment on affective startle.

We will accomplish this by re-testing affective startle at 6-months for those enrolled in the DBT treatment arm.

Supplement Promised Work:

	Supplement:	
	Startle assessments:	
	Pt Pt HC HC	
	Baseline 6mo Baseline 6mo	0
Months 13-18	Obtain IRB approval	
Months 19-24	45 12	
Months 25-30	50 23 * 12 10	
Months 31-36	25 22 * 6 11	
Months 37-42	5 * 4	
Months 43-48		

The project was awarded funding on 9/24/2011. In its first 12 months, the research team was incredibly effective in mobilizing resources and enrolling and testing **94** subjects at baseline and completing **1** 6-month follow-up. Over the most recent 12-month period (10/1/12 → 9/30/13), the team has been similarly effective with recruitment, testing an additional **55** subjects at baseline and **13** at 6-months following the treatment trial. These figures bring the cumulative total of baseline and 6-month numbers to **149** subjects and **14** subjects respectively. We therefore have almost completed baseline affective startle recruitment (149 of promised 150).

Progress Pertaining to Supplement Aim #1

Since receiving funding, we have run **149** patients at baseline and have done **14** 6-month follow-ups and therefore have met our recruitment goals for supplement Aim #1. The overall and 12-month breakdowns are as follows:

Group	Recruitment - Total	Recruitment – Last 12-Months
Controls	32 (3F/29M)	10 (1F/9M)
Ideators	33 (1F/32M)	13 (13M)
Single Attemptors	34 (8F/26M)	13 (2F/11M)
Multiple Attemptors	50 (21F/29M)	19 (9F/10M)
6-Month Follow-Up	14 (2F/12M)	13 (2F/11M)

Initial analyses on the first 40 subjects demonstrated a significant interaction between affective startle and suicide risk. (see **figure 3**). Multiple ideators, in the unpleasant picture condition, had significantly elevated affective startle % change values as compare to single attempters and ideators. We await confirmation of these exciting preliminary findings with the full data set.

Progress Pertaining to Supplement Aim #2

See information pertaining to Aim #1.

Progress Pertaining to Supplement Aim #3

We have assessed a total of 14 subjects with affective startle after six months of treatment.

Recruitment for this aim is dependent on successful completion of the parent RCT. We will continue to gather data for this aim over the duration of the treatment trial.

Problems Accomplishing Tasks

We are not experiencing any difficulty recruiting for this project and are in fact ahead of schedule. We expect to substantially increase the number of 6-month assessments in the coming year.

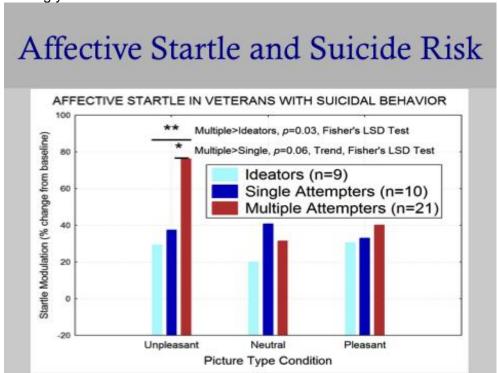


Figure 3- Affective Startle and Suicide Risk in veterans with ideation, history of single and multiple suicide attempts.

Key Research Accomplishments for both Parent and Supplement Projects

We have just completed year 4 of 5 for this study.

- In the 41 months since DoD IRB approval (4/27/10): recruitment has been brisk.
 322 subjects have signed consent.
- 293 (out of promised 300) subjects completed baseline assessments.
- 90 HR patients were randomized to the treatment trial,
- 44 HR patients have completed the 6-month treatment trial, many are still in progress.
- 149 (out of 150) subjects have completed baseline affective startle

Reportable Outcomes 2012-2013:

Dissemination

Presentations

- 1) American Psychiatric Association, May 2012
- 2) DOD/VA Joint Conference Suicide Prevention, June 2012
- 3) Society Psychophysiology, Research, September 2012*
- Veterans Integrated Service Network (VISN) 3 Conference on Addressing Mental Health Needs of OEF/OIF Soldiers, October 2012
- American Psychiatric Association, May 2013

Posters

- International Society of Psychoneuroendocrinology (ISPNE)* special meeting on Biomarkers of PTSD, September 2012
- 2) North American Society of Personality Disorders, April 2013
- 3) Biological Psychiatry, May 2013*
- International Society Psychophysiology, September 2013*
- * DoD Supplement

Conclusion:

Our preliminary baseline data highlights the importance of Axis II psychopathology, in particular, borderline personality disorder as a risk factor for high-risk suicidal behavior. This is relevant as the disorder is often under recognized in VA settings and not even listed in the Uniform Servics Package, the document listing required services for Veterans.

Additional data from the treatment trial, which has currently completed year 4 of 5 is needed before any conclusions can be drawn pertaining to the efficacy of dialectical behavioral therapy for high risk sucidality in veterans.

References:

Alvarez, V (2009). Suicides of Soldiers Reach High of Nearly 3 Decades New York Timescom. New York, New York Times.

Appendices: none included

Supporting Data: none included

Affective Startle Modulation in Suicidal Veterans

DMRDP Proposal Number WX81XWH-09-1-0722



PI: Goodman, Marianne Org: James J. Peters VAMC, Bronx NY 10468 Award Amount: \$462,884

Study/Product Alm(s)

Aim 1 is to examine the magnitude, time course, and rate of habituation of the startle eye blink response during unpleasant, neutral, and pleasant pictures in 130 veterans with varying levels of suicidality; 60 veterans with a recent suicide. attempt (during past 3 months), 60 veterans with suicidal ideation but no history of attempts, and 50 healthy controls Aim 2 is to compare startic variables agress suicide groups (ideators,

attemptors) by presence or absence of borderline personality disorder to clarify if differences in affective startle modulation extend beyond personality disorder diagnosis. Thirty suicide attemptors with 870 (SASPD4) will be compared with 50 suicide attemptors without 870 (SASPD4) and 30 suicide ideators with 870 (SISPD4) will be compared to 30 ideators without 870 (SISPD4) across startle

variables.

Aim 3 is exploratory and will examine whether (a) magnitude, time course. Aim 3 is exploratory and will common whether (a) magnitude, tracecurse and/or rate of habituation to unpleasent, records and pleasent pictures profiled treatment response to six-menth Dialocical Schwieral Therapy (DST) for suicidial behavior, and (b) magnitude, time course and/or habituation of allicolive states improves with 8 menths of DST in treatment responders compared with non-responders.

	Baseline assessments (50% HR, 50% LR)	Randomized to treatment (HR only)	Star asse Pt	ssmen	be:	
Months 19-21	30	12-13	Obtai	n DB s	рекоч	d
Months 21-24	30	12-13	25		12	-
Moeths 25-30	60	25	50	12 *	12	10
Months 31-36	30	5	25	25 *	6	-11
Months 37-42				13 *		4
Months 43-48						

Cotly 1/2 of the randomized subjects will receive DBT
 We will also need to assess 30 bealthy controls will also participate in the affective startle funded RCT subset. These healthy controls will also participate in the affective startle paradign both at baseline and 6 month follow up. We anticipate retaining 23 of the original 30 at the six-month follow-up. We articipate recruitment of 2 control subject month over 1.5 years

Accomplishment: The supplement funding was not received until after month 24, five months later than the original target data. However, IRB approval wassecomplished rapidly by month 25 and study injury and the commenced shortly afterward. We have currently assessed 148 baseline adultates and 148 Genomination-up. Employed part recruitment rate. Outs nalysis is currently underway and we have already presented preliminary findings

CY 11 Activities 12 13 14 Obtain RB approval, start data collector Complete follow-up startle assessments preparation of manuscripts and presentat Estimated Budget (\$K) Indirect and direct \$168 8142 \$143

Updated: 1/2013

Goals/Milestones

- CY11 Goal obtain IRB approval, begin recruitment and assessment of subjects for baseline startle assessment
- Assess 25 high risk and 12 healthy control subjects with statile paradigm by end of calendar year (revised to 10 HR/6 LR due to 6 month delay in funding)
- CY12 Goals / complete data collection of baseline startle assessments / Complete startle assessments of suicidal subjects (total n=100) / Beglin to dotain 6 month followup startle CY13 Goal Complete data collection of
- and data analysis (we have collected 149 of 150) ./

 □Complete data collection on 6-month follow up startle assessments (we have collected 14 to date)
- ✓ prepare startle data for analysis and conduct analyses (in process)
 □Manuscript generation

ents/Challenges/Issues/Concerns- n/a

Budget Expenditure to date
Projected Expenditure: \$452,834 total Actual Expenditure: \$153,925.

High Risk Suicidal Behavior in Veterans - Assessment of Predictors and Efficacy of Dialectical Behavioral Therapy

DMRDP Proposal Number WX81XWH-09-1-0722
Pl: Goodman, Marianne Org: James J. Peters VANC, Bronx NY 10468 Award Amount: \$\$1.279M



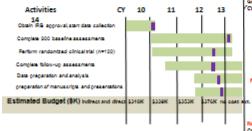
Alm 1: To examine, in a randomised controlled that (RCT), the efficacy of a 6 month treatment with danderd CRT (weekly hold/volue assortion, still e-training group and telephone coaching as needed) as compared to TAU in 120 veterant recently discharged from an acuse psychiatric inpatient day with high rist subside labeation. High-rist (HA) acide subject of will underpo a comprehendre disquantic invarient prior to enterly the treatment study. Subjects will receive 6 months of TAU vs. DCT but both groups will continue to receive study and case management services from their clinic providers. Subjects will receive a battery of assessments at month 6, 12 and 12.

Alm 2: To recruit veterant recently discharged from an acute psychiatric inpatient stay comparing 150 veterant with HR suicidal behavior to 150 veterant without such behavior (LR) in symptom domains focusing on interpersonal functioning and resiliency.

Alm 2: it exploratory and examines the effect of treatment (DET or TAU) on the putative intermediate symptom domains associated with HR suicidal behavior of interpersonal functioning and redlency.



ccomplishment 900 subjects have signed consent From this total, 990 subjects completed the baseline assessment. 90 subject have been randomized in the treatment trial which is ongoing. These data have generated 5 presentations and 4 passess to date with an additionated for 2014.



- Goals/Milestones:

 (7010 Goals Jobbsh I Rill approval), hire and train staff, begin recruitment targeting 50 bases
 assessments and 40 rendombard to treatment trial. Initial Gool Rill approval was delays
 monthe behind projected date. For the remainder of 2010, we completed 55 behind
 assessments and randombard 23 high initial substantial for treatment.

 (YVII Goal continue date collection of baseline assessments (n-100) and random
 to cilicial trial (n-50), and follow up assessments (n-70). Actual numbers were \$6 consubjects. \$6 completed baseline assessments and 55 randombards to the to trial.

 (YVII Goal continue date collection of baseline assessments (n-90) / and
 randombards.
- randomization to cinical will (n-20), and follow up assessments (n-102).

 New CY 13 Goal- continue data collection of baseline assessments (n-75) and 50 subjects randomized to STC by increasing efforts at our second neculatment data (Nanhastan UMIC). Recruitment to data the U0121-2 we have completed 293 baseline assessments and randomized 90 subjects to the treatment trial. Our recruitment for baseline assessments has
- Increased due to addition of the second site, but clinical trial enrollment remains behind. to appear or the according, but clinical that annihilate it maint partial periods. Near CY14 Goal-Complete data collection and data analysis. B manuscript generation Comments ("Onlienges) lisused Concerns—recruitment for RCT as described, above, addressed through addition of 5th year and no cost extension.

dref Expenditure to date Projected Expenditure: \$1,279M, Actual: (throughg/12) \$1,192M